

Seminar Announcement

Dr. Atsufumi Hirohata
University of Cambridge, Physics Department

Date: Monday, November 19, 2001

Time: 1:30 a.m.

Coffee: 1:00 a.m.

Place: Building 3 Room 107

Host: Dr. Mark Johnson, Code 6340 (ext. 767-6265)

“Ballistic Spin Transport in Schottky Diodes and Spin Valve Structures”

Abstract

The role of ferromagnetic metal/semiconductor junctions in spintronic devices is currently of great interest. Spin-polarised electron transport across ferromagnet / semiconductor, interfaces was investigated using photoexcitation techniques at room temperature, achieving significant spin filtering in a ballistic regime.